

1 GACGCGGCTGGCACTGGGTGGGCGCCACACGCTCGGCCACAACCTCCCGGGGCTTCGGCG 60
1 R G W H W V G A H T L G H N S R G F G V 20

61 TGGCCATAGTGGGCAACTACACCGCGGCGCTGCCACCGAGGCGCTCTGCGCACGGTGC 120
21 A I V G N Y T A A L P T E A A L R T V R 40

121 GCGACACGCTCCCGAGTTGTGCGGTGCGCGCCGGCCTCCTGCGGCCAGACTACGCGCTGC 180
41 D T L P S C A V R A G L L R P D Y A L L 60

181 TGGGCCACCGCCAGCTGGTGGCACCAGCTGCCCCGGCGACGCGCTCTTCGACCTGCTGC 240
61 G H R Q L V R T D C P G D A L F D L L R 80

241 GCACCTGGCCGCACTTCACCGCGGTGAGTCTTCGCAGCCTGCACTACACGGCCCGCCGCC 300
81 T W P H F T A V S L R S L H Y T A R R P 100

301 CCTCCGTCTACACAAGCTCCACGAGGCCCTGCCCCCTGCCTGTAACAGCTGTGCCCGCA 360
101 S V Y T S S T R P L P P A C N S C A R T 120

361 CAGCCTCAGCCAGGCCCCCAACTTCCCGGGCGGCACGTCTATTTCAGGAAACCTAGGCCCAG 420
121 A S A R P P T S R R H V Y S G N L G P A 140

421 CCTTTGCGGGTCACTCTGCGGGCAACATCCCTGATCCTGTGACTTCTGCCTATGCAGCCT 480
141 F A G H S A G N I P D P V T S A Y A A S 160

481 CAGCTCAGCCCCAGACCCAGCCAGCCTGTCTTTCCCCAGCTCCTAATACCTCTACCTTT 540
161 A Q P Q T Q P A C P F P S S 174

541 CCAGCCAAGGCATGGACCCTGACACCTGCCAACAGCCCCTCTGCCCTCACAACCTCAGCC 600

601 TGGCCTTCATGACTTCTCTACCCAAGTCACAACCTGTCAGGCTGCACCACCTCATCCTGG 660

661 CCCGCCGAACCTTGACCTACCCCTGCCCCTACCCGAAGGCTCTCTGTCCACACAACATG 720

FIG. 1A

721 AACCTAGGCTGTGACCTTTTGCCTTCACAACCTCTGTCCAGTCCTTAATCCTGTGTTGCA 780
781 ATTCTCTGTCCAGACAATCTCAACTCTGAGGTTGCTTGTTTCGTCCCTGACTCCTTAACC 840
841 CCTGATGACAACTCTTATGCCAGCACAACTTTGACCTGATGACCTCATCCCAGCCCTTGA 900
901 TCGCCATCACTAAACAATTTTAGAATCACACCTGGACAATCTCGTGCTACCTACATACT 960
961 GCCACTCCATTTTATTAAGCTATTGACTAGCACATCCATCTCGGCCTATAGTTGGCTTTG 1020
1021 TCCTCACTCTCTCACTTTGGGCCACTGTCCCCTCCCTGATAAAGGGGATATCACCACCGA 1080
1081 TCCCACAGAAATACAACTACCATCAGAGAATACTATAAACACCTCTATGCAAATAAACT 1140
1041 AGAAAATCTAGAAGAAATGGATAAATTCCTCAACACCCACTACCAAAAAAAAAAAAAAAAA 1200

FIG. 1B

1	GCCGTTATGTGAGGTAAGCAGCTTTCTCCAACAGAAGTTCCTCTCTCCTCAAAGGCCAG	60
61	AGTGTCCAGGCCAACCAACTGACCAAGAATTACAACCTGCTGAACTGGCCTCCGAGGTTC	120
121	TCTGCTGGGTCTGTGCCCTGGAAGTGGAGACCCACCATGAAGGCCTGGGGTGGCCCTCTGG	180
1	M K A W G A L W	8
181	ATCGTGCTTGGATTGCTGCTGTGGCCAGAGCCAGGGGCAGCCTCCTCCTTGCCCTCTGCTC	240
9	I V L G L L L W P E P G A A S S L P L L	28
241	ATGGACTCCATCATCCAGGCCCTTGCTGAACTTGAGCAAAAGGTACCAGTGACTGAGGCC	300
29	M D S I I Q A L A E L E Q K V P V T E A	48
301	AGCATCACTGCCTCTGCATGGATTCTGTGAGCCAAGAACTCCAGCACCCACAATTCCCTT	360
49	S I T A S A W I L S A K N S S T H N S L	68
361	CACCAGCGCTTGCTGCTGAAGGCACCAAGCCACAACACTACAGAGCCAGATCCTCACTCT	420
69	H Q R L L L K A P S H N T T E P D P H S	88
421	CTCAGCCCGGAGCTTCAAGCACTGATTTCTGAGGTGGCTCAACACGATGTACAGAATGGG	480
89	L S P E L Q A L I S E V A Q H D V Q N G	108
481	CGGGAATATGGAGTGGTCTGGCACCTGATGGCTCCACCGTAGCTGTGAAGCCTCTGCTG	540
109	R E Y G V V L A P D G S T V A V K P L L	128
541	TTTGGGCTAGAGGCCGGTCTACAGGCACACAGCGTTGCTAACTTGCCTTCAGATTGTCTG	600
129	F G L E A G L Q A H S V A N L P S D C L	148
601	GCTATCCCCTGTGATACTGGAGACACCTTGGCCAATATTAGAGCCACCTGGCCAGGACTC	660
149	A I P C D T G D T L A N I R A T W P G L	168
661	ATGGATGCTTTTCCAAATGCCTCTTCTCCAGATGTTGGAGCCACTTTACCAAACGACAAA	720
169	M D A F P N A S S P D V G A T L P N D K	188

FIG. 2A

721	GCCAAGACTCCCACCACTGTGGACAGACTCCTGGCAATCACCTTGGCTGGTGA	780
189	A K T P T T V D R L L A I T L A G D L G	208
781	CTGACCTTCCTCCACAGGTCCCAGACTTGGAGTCCTCCAGGACTGGGAACTGAGGGCTGC	840
209	L T F L H R S Q T W S P P G L G T E G C	228
841	TGGGACCAGCTTACTGCCCCAGGGTCTTCACACTGTTGGACCCCCAGGCATCCAGGCTC	900
229	W D Q L T A P R V F T L L D P Q A S R L	248
901	ACCATGGCTTTCTCAATGGTGCCTTAGATGGAGCTCTCCTTGGGAACCACTTGAGCCAA	960
249	T M A F L N G A L D G A L L G N H L S Q	268
961	ATCCCTAGGCCCCACCCACCCCTCAGCCACCTGCTAAGAGAGTACTATGGAGCTGGGGTG	1020
269	I P R P H P P L S H L L R E Y Y G A G V	288
1021	AATGGAGATCCGGTGTTCGGAAGTAACTTCCGAAGGCAGAACGGTGCTGCTTTGACTTCA	1080
289	N G D P V F R S N F R R Q N G A A L T S	308
1081	GCCCCCTACCCTGGCCCCAGCAGGTATGGGAGGCCCTTGTCCTGTTACAGAACTGGAGCCA	1140
309	A P T L A Q Q V W E A L V L L Q K L E P	328
1141	GAACACCTACAGTTGCAGAACATTAGCCAAGAGCAGCTGGGCTCAGGTAGCCACCTTGGCT	1200
329	E H L Q L Q N I S Q E Q L A Q V A T L A	348
1201	ACCAAGGAGTTCACTGAGGCTTTCTTGGGATGCCCAGCCATTACCCCCGCTGCCGTTGG	1260
349	T K E F T E A F L G C P A I H P R C R W	368
1261	GGAGCGGCTCCCTACCGAGGCCACCCAACACCACTCCGGCTGCCACTTGGATTCTTATAT	1320
369	G A A P Y R G H P T P L R L P L G F L Y	388
1321	GTGCATCACACATACGTGCCAGCGCCACCCTGCACCACCTTCCAGAGCTGCGCCGCCGAT	1380
389	V H H T Y V P A P P C T T F Q S C A A D	408

FIG. 2B

1381	ATGCGCTCCATGCAGCGTTTCCACCAGGATGTGCGCAAGTGGGATGACATCGGCTACAGT	1440
409	M R S M Q R F H Q D V R K W D D I G Y S	428
1441	TTCGTGGTAGGCTCCGACGGCTATCTGTACCAGGGCCGTGGCTGGCACTGGGTAGGTGCG	1500
429	F V V G S D G Y L Y Q G R G W H W V G A	448
1501	CACACACGCGGCTACAACCTCCCGCGGCTTCGGTGTGGCCTTCGTGGGCAACTACACTGGG	1560
449	H T R G Y N S R G F G V A F V G N Y T G	468
1561	TCACTGCCCCAACGAAGCTGCGCTGAACACGGTGCGCGACGCGCTCCCGAGCTGCGCAATT	1620
469	S L P N E A A L N T V R D A L P S C A I	488
1621	CGCGAAGGTCTCTTGCGGCCAGACTACAAGCTGCTTGGCCACCGCCAGCTAGTGCTCACC	1680
489	R E G L L R P D Y K L L G H R Q L V L T	508
1681	CACTGCCCCGGGAACGCGCTCTTCAACTTGCTGCGCACCTGGCCTCACTTCACAGAGGTT	1740
509	H C P G N A L F N L L R T W P H F T E V	528
1741	GAAAACTAAGAACTCCTTTGAGAGACCCTTGAAGATCCAGGAGGTATTATCCCTGATGAT	1800
529	E N *	531
1801	CCTTTGAGCAACCACAGACCTCCAATAAAGGGACCACTGAAAGGAAAAAAAAAAAAAAAAA	1860
1861	AAAAAAAAAAAAAAAAA	1876

FIG. 2C

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	10	20	30	40	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
1	MKAWGALWIVLGLLLWPEPGAASSLPLLMDSIIQALAELE				mPGRP-L aa Seq.
	50	60	70	80	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
41	QKVPVTEASITASAWILSAKNSSTHNSLHQRLLLKAPSHN				mPGRP-L aa Seq.
	90	100	110	120	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
81	TTEPDPHSLSPELQALISEVAQHVDVQNGREYGVVLPDGS				mPGRP-L aa Seq.
	130	140	150	160	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
121	TVAVKPLLFGLEAGLQAHSVANLPSDCLAIPCDTGDTLAN				mPGRP-L aa Seq.
	170	180	190	200	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
161	IRATWPGLMDAFPNAASSPDVGATLPNDKAKTPTTVDRLLA				mPGRP-L aa Seq.
	210	220	230	240	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
201	ITLAGDLGLTFLHRSQTSPPGLGTEGCWDQLTAPRVFTL				mPGRP-L aa Seq.
	250	260	270	280	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
241	LDPQASRLTMAFLNGALDGA LLGNHLSQIPRPHPLSHLL				mPGRP-L aa Seq.
	290	300	310	320	
1	-----	-----	-----	-----	hPGRP-L aa Seq.
281	REYYGAGVNGDPVFRSNFRRQNGAALTSAPT LAQQVWEAL				mPGRP-L aa Seq.

FIG. 3A

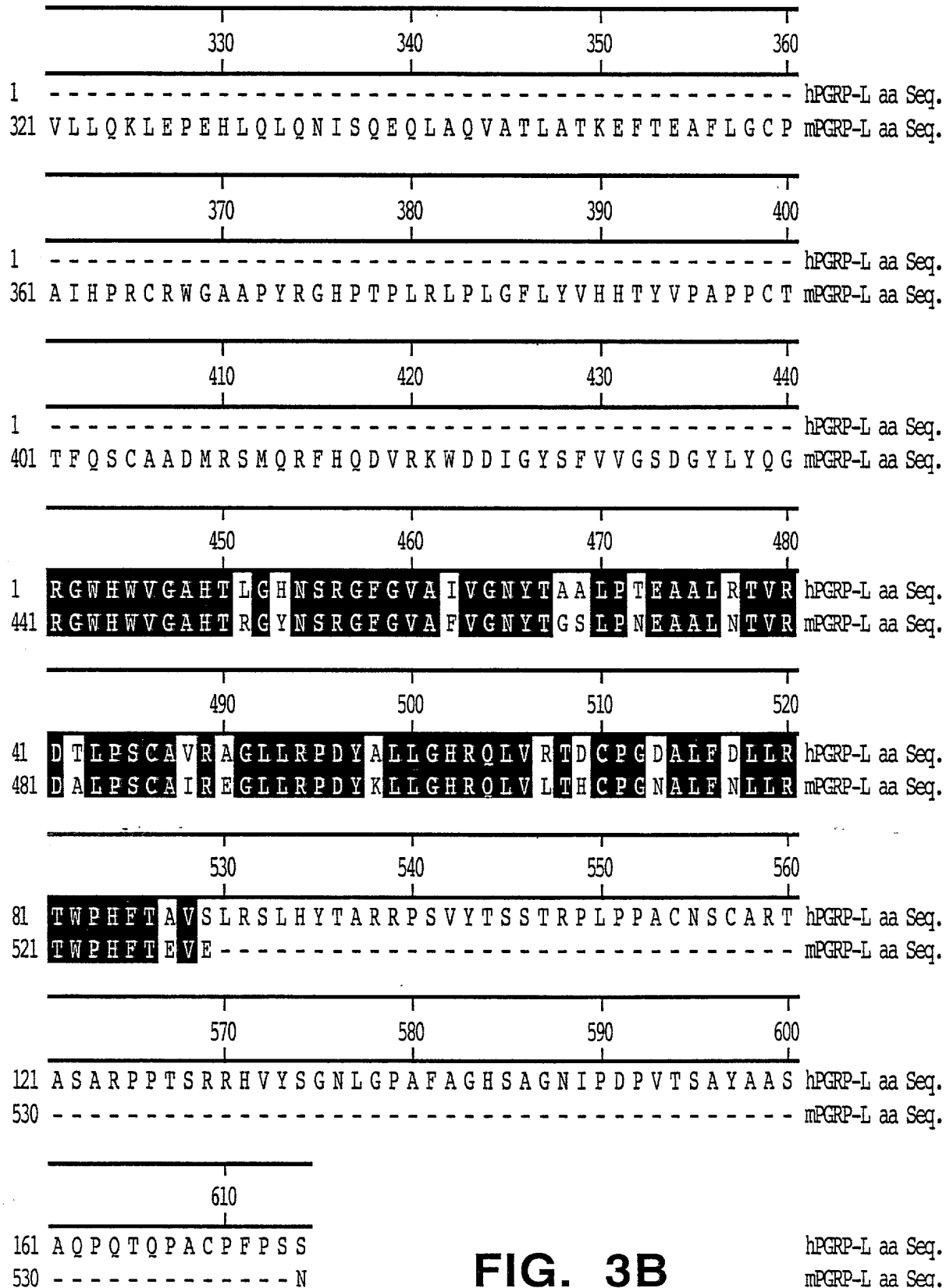


FIG. 3B

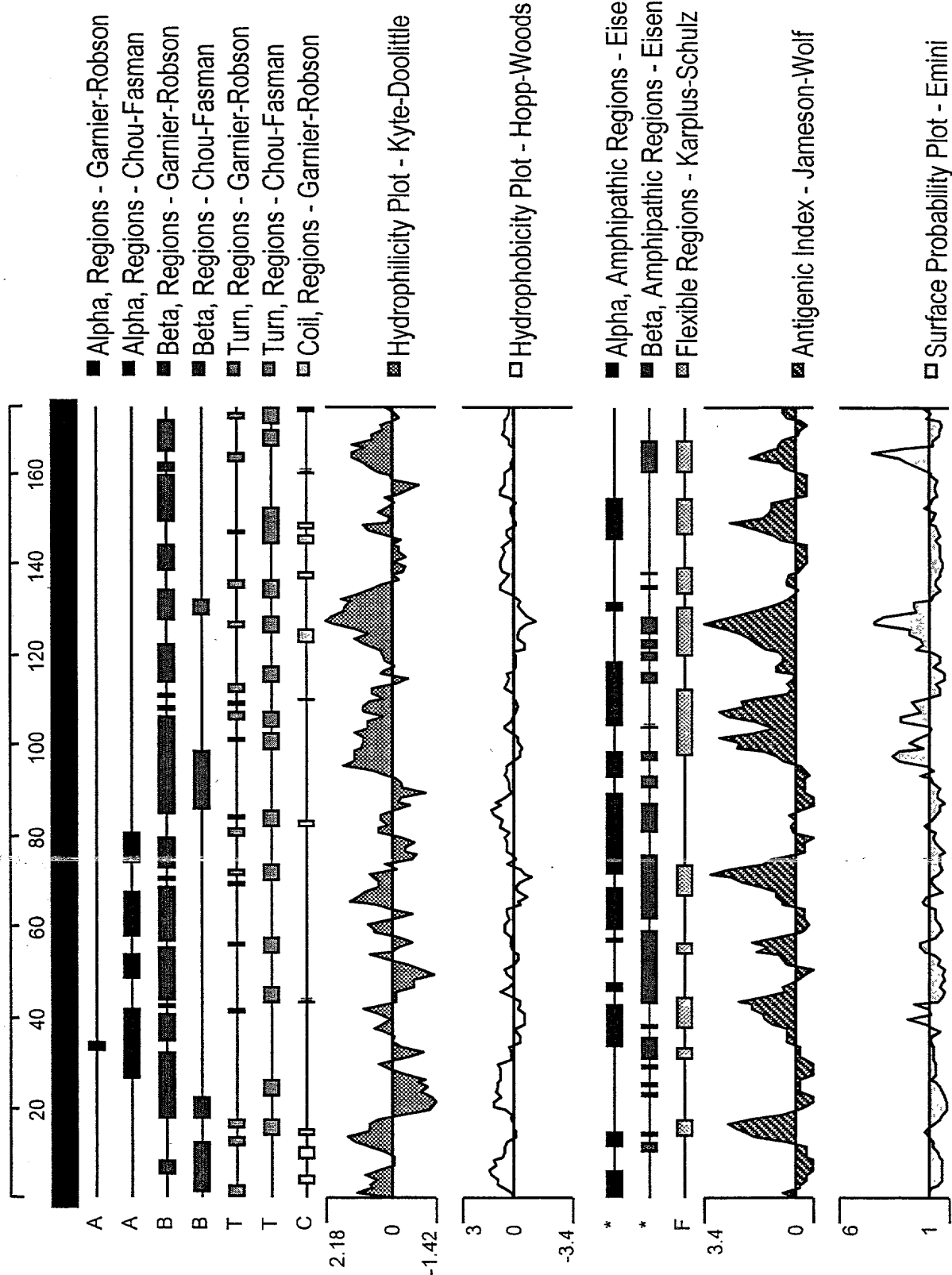


FIG. 4

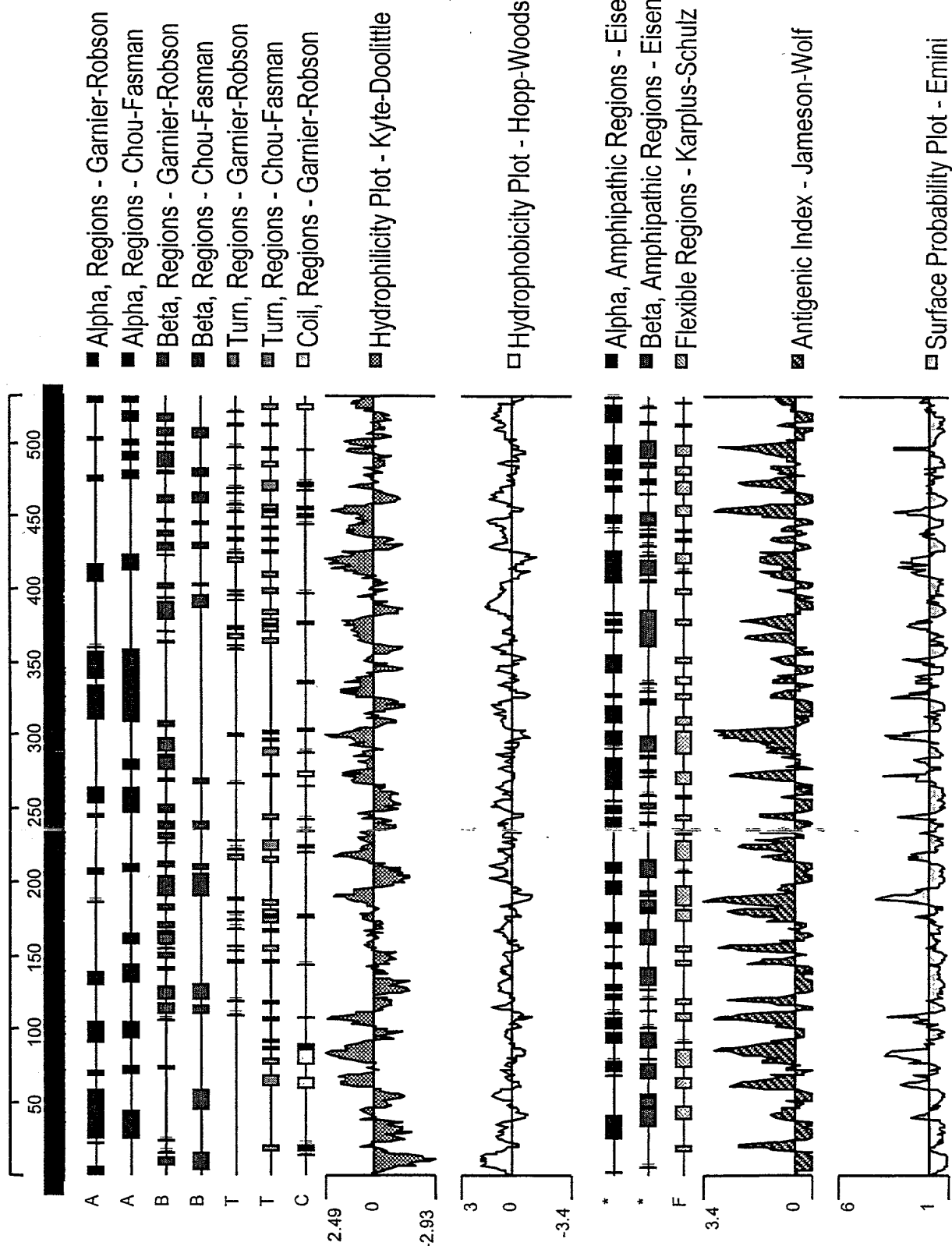


FIG. 5